AFGHAN NATIONAL POLICE STANDARD BUILDING DESIGNS

ENTRY CONTROL POINT CANOPY

SHEET INDEX

G1 COVER SHEET

S1 GENERAL NOTES

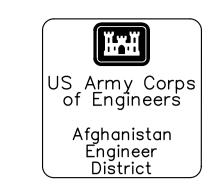
S2 BASIS OF DESIGN

S3 MATERIAL SCHEDULES

S4 FOUNDATION / SLAB / ROOF FRAMING PLAN

A1 FLOOR AND ROOF PLANS

A2 CANOPY PLAN, ELEVATIONS, AND SECTIONS



				APR	I
				DATE	
				DESCRIPTION	
				1	
				SYMBOL	,

AFGHAN NATIONAL POLICE STANDARD DESIGN ENTRY CONTROL POINT CANOPY COVER SHEET

WIDTH

WITH

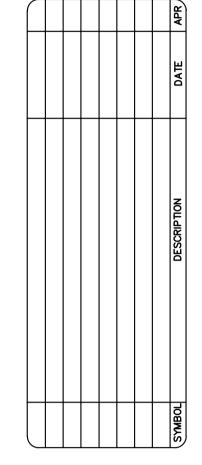
W/

GENERAL NOTES

- 1.0 THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS AND MATERIALS INDICATED ON THE DRAWINGS AND FOR THE LIVE LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING,
- BRACING, SHEETING AND SHORING, ETC. 1.1 COORDINATE THESE DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS. ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE MILLIMETERS UNLESS NOTED OTHERWISE
- 1.2 THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL FLOOR AND ROOF OPENING SIZES AND LOCATIONS, EQUIPMENT PAD SIZES AND LOCATIONS, ANCHOR BOLT LAYOUTS, ETC WITH EQUIPMENT SELECTED. THE CONTRACTOR SHALL MAKE ANY REQUIRED MODIFICATIONS AT NO ADDITIONAL COST.
- 1.3 THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS OR OPENINGS, ETC. NOT HEREIN INDICATED.
- 1.4 NOT USED 1.5 SLAB OPENINGS SMALLER THAN 250mm DIA TO BE CORE DRILLED IN FIELD UNO. SEE MECHANICAL. ELECTRICAL AND PLUMBING DRAWINGS FOR LOCATIONS OF THESE
- **OPENINGS** 1.6 WORK NOT INCLUDED ON THE DRAWINGS BUT IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES ELSEWHERE ON THE DRAWINGS SHALL BE REPEATED.
- IN CASE OF CONFLICT BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS THE MOST RIGID REQUIREMENTS SHALL GOVERN.
- 1.8 COORDINATE FINISHED FLOOR DATUM ELEVATION 0.0m WITH THE CIVIL DRAWINGS.
- FOUNDATION NOTES
- THE GEOTECHNICAL ANALYSIS FOR THIS PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR AWARDED THE WORK. DESIGN VALUES USED IN THE STRUCTURAL ANALYSIS OF THE BUILDINGS HEREIN INDICATED HAVE BEEN ASSUMED AND SHALL BE CONFIRMED AND VERIFIED AS PART OF THE GEOTECHNICAL INVESTIGATION. VALUES WHICH DO NOT MEET THE REQUIREMENTS INDICATED ON THE BASIS OF DESIGN SHEET SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER-OF-RECORD FOR CONSIDERATION AND DETERMINATION ON THE NEXT APPROPRIATE COURSE OF ACTION.
- 2.2 SEE THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS TO THOSE OUTLINED IN THE GEOTECHNICAL INVESTIGATION FOR EXCAVATION AND PREPARATION OF THE FOUNDATION AND THE SLAB ON GRADE SUBGRADE INCLUDING COMPACTION PROCEDURES.
- 2.3 EXCAVATIONS FOR FOOTINGS SHALL HAVE THE SIDES AND BOTTOMS TEMPORARILY LINED WITH 0.15mm POLYETHYLENE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HRS OF THE EXCAVATION OF THE FOOTING.
- 2.4 FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE GENERAL CONTRACTOR BEFORE FURTHER CONSTRUCTION IS ATTEMPTED. SEE PROJECT **SPECIFICATIONS**
- 2.5 NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, ICE OR LOOSE MATERIAL. FROST DEPTH ASSUMED TO BE 800MM
- 2.6 ALL SLAB-ON-GRADE, TRENCH BOTTOMS AND OTHER ON-GRADE INTERIOR HORIZONTAL SURFACES SHALL BE PLACED OVER A 0.15mm VAPOR BARRIER OVER A 100mm #57 STONE WATER BARRIER PLACED ON SUBGRADE PROPERLY PREPARED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. (UNO)
- 2.7 SEE PLUMBING, ELECTRICAL & CIVIL DRAWINGS FOR REQUIRED UNDERSLAB UTILITIES. 2.8 SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING DETAILS AND MATERIALS.
- 2.9 IF UNDERMINING OF FOOTINGS OCCURS, FILL VOIDS WITH 15MPa CONCRETE. DO NOT ATTEMPT TO REPLACE AND RECOMPACT SOIL.
- 3.0 <u>CONCRETE</u>
- CONCRETE SHALL HAVE THE UNIT WEIGHT AND THE MINIMUM COMPRESSIVE STRENGTHS (f'c) AT 28 DAYS AS SHOWN IN THE CONCRETE MATERIALS SCHEDULE ON THE BASIS OF DESIGN SHEET. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. ENTRAIN AIR TO PRODUCE TOTAL AIR CONTENT ACCORDING TO THE SPECIFICATIONS FOR CONCRETE EXPOSED TO FREEZING TEMPERATURES (EXTERIOR FOOTINGS, SLAB TURNDOWNS, EXTERIOR SLABS AND SLABS-ON-GRADE, EXTERIOR RETAINING WALLS, AND EXTERIOR GRADE BEAMS.)
- 3.2 GROUT FOR BASE PLATES SHALL BE NON-SHRINKABLE GROUT AND SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS OF 35MPa, UNLESS NOTED OTHERWISE.
- 3.3 NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
- 3.4 MIXING, TRANSPORTING AND PLACING OF CONCRETE SHALL CONFORM TO AC1-301-89
- 3.5 ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318M MANUAL (metric), "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", AND REQUIREMENTS OUTLINED IN THE CONTRACT SPECIFICATIONS. WHEN THERE IS A CONFLICT BETWEEN ACI AND THE SPECIFICATIONS, THE MORE STRINGENT SHALL GOVERN.
- 3.6 CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 20mm x45 DEGREE CHAMFER UNO.
- 3.7 CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615M-96a, GRADE 60. REINFORCING BARS SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT, UNLESS INDICATED ON THE CONTRACT DOCUMENTS. ALL LAP SPLICES SHALL BE CLASS "B" U.N.O.
- 3.8 HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED WITH A CLASS B TENSION SPLICE AT CORNERS AND INTERSECTIONS. TOP BAR CRITERIA SHALL APPLY IF 300mm OR MORE OF FRESH CONCRETE IS PLACED BELOW BAR.
- 3.9 SLABS-ON-GRADE SHALL HAVE CONSTRUCTION JOINTS OR CRACK CONTROL JOINTS AS SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS CAN BE USED AT CONTROL JOINT LOCATIONS AT CONTRACTORS OPTION. SEE SLAB PLANS & JOINT DETAILS FOR ADDITIONAL INFORMATION. FOR AREAS NOT SHOWN ON DWGS, THE MAXIMUM SPACING OF CONSTRUCTION / CRACK CONTROL JOINTS SHALL BE 4800 mm

- 3.10 ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318, AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.
- 3.11 SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT, SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.
- 3.12 NOT USED. 3.13 ALL DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING, UNLESS NOTED
- OTHERWISE ON DRAWINGS.
- 3.14 ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS AS SHOWN ON THE DWGS. 3.15 SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES.
- 3.16 THE CONTRACTOR SHALL COORDINATE ADDITIONAL WALL/SLAB OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. SEE MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS.
- 3.17 UNLESS NOTED OTHERWISE, ALL CURBS SHALL BE REINFORCED WITH AT LEAST (1) #13 CONTINUOUS AND #13 AT 300mm OC DOWELS TO STRUCTURE BELOW.
- 3.18 THE SUB-CONTRACTOR SHALL VERIFY ALL OPENINGS, PAD SIZES, AND ANCHOR BOLTS WITH EQUIPMENT SELECTED.
- 3.19 FOR ALL WALLS & PIERS, PROVIDE DOWELS INTO FOOTING AT EACH VERT REINF BAR, U.N.O. DOWEL SIZE SHALL BE SAME AS VERT REINF.
- 3.20 ALL DEFORMED BAR ANCHORS SHALL BE TRS NELSON DIVISION OR EQUAL 15mm DIA (UNO) CONFORMING TO ASTM A-496M WITH A MINIMUM TENSILE STRENGTH OF 550 MPa. ANCHOR DIMENSIONS SHALL BE IN ACCORDANCE WITH ASTM D-19. INSTALL ANCHORS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BY AUTOMATIC ND WELDING AS INDICATED ON THE DRAWINGS. NO UNAUTHORIZED OR FIELD WELDING SHALL BE MADE WITHOUT AUTHORIZATION FROM THE MANUFACTURER.
- 3.21 ALL REINFORCING INDICATED TO BE WELDED SHALL BE IN ACCORDANCE WITH ASTM A706M. "LOW ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT". ANY INSTALLATIONS USING MANUFACTURER'S EQUIPMENT SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
- 3.22 PROVIDE CONCRETE POUR STOPS OR FORMED AS REQUIRED FOR INSTALLATION OF ALL CONCRETE WORK.
- 3.23 PROVIDE ADDITIONAL $2-\#13 \times 600$ mm REINFORCING BARS IN SLAB-ON GRADE AT ALL RE-ENTRANT CORNERS. PLACE BARS AT MID-DEPTH OF SLAB WITH A CLEARANCE OF 50mm FROM CORNER UNO.





	DESIGNED BY: DATE:	DATE:		
	RAKFR	90-05-60		
Michael Rober Ir Inc				
A unit of Michael Baker Corporation	DWN BY:	SUBMITTED BY:		
Airside Business Park	JAC	BAKER		
100 Airside Drive				
Moon Township PA 15108	CHK BY:	FILE NO.:		
www.mbakercorp.com	RTD	ANPSDS-001xxx		
			SYMBO	₩

GHAN NATIONAL POL STANDARD DESIGN ENTRY CONTROL POINT CANOF

				APR
				DATE
				DESCRIPTION
				YMBOL

\bigcup					- 2
DATE:	60-30-60	SUBMITTED BY:	BAKER	FILE NO.:	ANPSDS-002XXX
DESIGNED BY: DATE:	BAKER	DWN BY:	RCG	CHK BY:	RTD

AFGHAN NATIONAL POLICE STANDARD DESIGN ENTRY CONTROL POINT CANOPY STRUCTURAL BASIS OF DESIGN

STRUCTURAL DESIGN CRITERIA

ALL DESIGNS SHALL CONFORM TO THE PROVISIONS OF THE IBC 2006 AND UFC 4-010-01 AS APPLICABLE

1.0 DESIGN LOADS

1.1 DEAD LOADS

1.1.2 ROOF DEAD LOADS - PRE-ENGINEERED FRAMING

	MAXIMUM	MINIMUM
	GRAVITY LOAD	GRAVITY LOAD
STEEL FRAMING METAL DECKING/ROOFING MECH / ELEC / PLUMBING	0.20 KPa 0.14 KPa 0.15 KPa	0.15 KPa 0.05 KPa 0.10 KPa
METAL PANEL CEILING MISC	0.15 KPa 0.40 KPa	0.15 KPa 0.00 KPa
	1.00 KPa	0.45 KPa

1.3 LIVE LOADS (PER IBC 2006)

1.3.1 ROOF LIVE LOADS: ALL BUILDINGS

GREATER OF 1.0 KPa MINIMUM OR SNOW LOAD

1.3.3 SLAB-ON-GRADE LIVE LOADS

ALL BUILDINGS

4.80 KPa

1.4 SNOW LOADS (PER IBC 2006)

1.3.1 DESIGN PARAMETERS

GROUND SNOW LOAD (per UFC 3-310-01) PER LOCAL CONDITION SNOW IMPORTANCE FACTOR 1.0 KPa 1.0 KPa SNOW EXPOSURE FACTOR

1.5 SEISMIC LOADS (PER IBC 2006 & TM 5-809-10)

1.5.2 SEISMIC PARAMETERS - PRE-ENGINEERED BUILDINGS

SEISMIC	OCCUPANCY CATEGORY	II
SEISMIC	IMPORTANCE FACTOR (I)	1.0
SEISMIC	SITE CLASS	D
Ss		1.28
S1		0.51
Sds		0.853
Sd1		0.510
SEISMIC	DESIGN CATEGORY	D
SEISMIC	RESISTING SYSTEM	MOMENT RESISTING FRAME
		INTERMEDIATE STEEL MOMENT FRAMES
RESPON	SE MODIFICATION FACTOR	(R) 3.5
SEISMIC	ANALYTICAL PROCEDURE	EQUIV LATERAL FORCE

1.6 WIND LOADS (PER IBC 2006)

1.6.1 DESIGN PARAMETERS

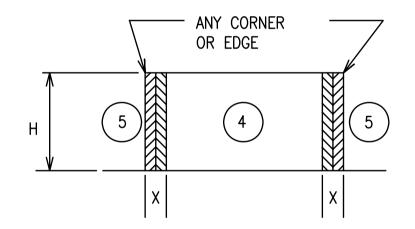
BASIC WIND SPEED	145 Km/h
WIND IMPORTANCE FACTOR	1.0
WIND EXPOSURE CATEGORY	D
DIRECTIONALITY COEFFICIENT (Kd)	0.85
TOPOGRAPHIC FACTOR (Kzt)	1.0

1.6.2 DESIGN WIND PRESSURE - MAIN WINDFORCE RESISTING SYSTEM

LOCATION	CORNER ZONE WIDTH "a"	WINDWARD (@ MEAN ROOF HEIGHT)	LEEWARD (@ MEAN ROOF HEIGHT)	ROOF
FIELD ZONE	N/A	964 N/m ²	-604 N/m ²	-1340 N/m ²
CORNER ZONE	1440mm	1127 N/m ²	-588 N/m ²	-1355 N/m ²

1.6.3 DESIGN WIND PRESSURE - WALL COMPONENTS AND CLADDING

EXTERIOR WALL SYSTEMS & THEIR ATTACHMENTS TO THE PRIMARY STRUCTURE SHALL BE DESIGNED FOR THE PRESSURES SHOWN IN THE DIAGRAM BELOW:

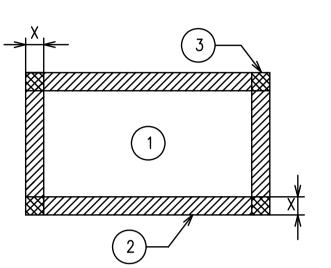


	WINDWARD PRESSURE N/m² (inward)		LEEWARD		
LOCATION	N/m²		N/m² (outward)	Х
	(4)	(5)	(4)	(5)	
MAIN BUILDING					(mm)
$AREA = 1 m^2$	1513	1513	-1634	-2017	1440
$AREA = 2 m^2$	1438	1438	-1567	1859	1440
$AREA = 5 m^2$	1345	1345	-1469	-1691	1440
$AREA = 10 m^2$	1246	1246	-1370	-1444	1400

1. DESIGN WIND PRESSURES ABOVE REPRESENT THE NET PRESSURE (SUM OF INTERNAL AND EXTERNAL PRESSURE) APPLIED NORMAL TO ALL SURFACES. 2. LINEAR INTERPOLATION BETWEEN VALUES OF TRIBUTARY AREA IS PERMISSIBLE. 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURE TOWARD AND AWAY FROM THE EXTERIOR SURFACE, RESPECTIVELY.

1.6.4 DESIGN WIND PRESSURE - ROOF COMPONENTS AND CLADDING

ROOF COMPONENTS & THEIR ATTACHMENTS SHALL BE DESIGNED FOR THE PRESSURES SHOWN IN THE ADJACENT DIAGRAM & TABLE BELOW:



ROOF MEAN HEIGHT

LOCATION	GROS	Х		
	1	2	3	, ,
MAIN BUILDING				(mm)
$AREA = 1 m^2$	-1513	-1790	-3342	-1440
$AREA = 2 m^2$	-1513	-1790	-3342	-1440
$AREA = 5 m^2$	-1513	-1790	-3342	-1440
$AREA = 10 \text{ m}^2$	-1513	-1790	-3342	-1440

1. DESIGN WIND PRESSURES ABOVE REPRESENT THE NET PRESSURE (SUM OF INTERNAL AND EXTERNAL PRESSURE) APPLIED NORMAL TO ALL SURFACES. 2. LINEAR INTERPOLATION BETWEEN VALUES OF TRIBUTARY AREA IS PERMISSIBLE. 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURE TOWARD AND AWAY FROM THE EXTERIOR SURFACE, RESPECTIVELY.

STRUCTURAL DESIGN CRITERIA

2.0 FOUNDATION DESIGN CRITERIA (TO BE CONFIRMED BT THE CONTRACTOR)

THE GEOTECHNICAL ANALYSIS FOR THIS PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR AWARDED THE WORK. DESIGN VAULUES USED IN THE STRUCTURAL ANALYSIS OF THE BUILDINGS HEREIN INDICATED HAVE BEEN ASSUMED AND SHALL BE CONFIRMED AND VERIFIED AS PART OF THE GEOTECHNICAL INVESTIGATION. VAULES WHICH DO NOT MEET THE REQUIREMENTS INDICATED BELOW SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER-OF-RECORD FOR CONSIDERATION AND DETERMINATION ON THE NEXT APPROPRIATE COURSE OF ACTION.

2.1.1 SOIL DESIGN PARAMETERS

NET ALLOWABLE SOIL BEARING CAPACITY	96.0 KPa
UNIT WEIGHT OF SOIL (moist)	1800 Kg/m ³
COEFF ACTIVE EARTH PRESSURE (Kpa)	0.30
COEFF PASSIVE EARTH PRERSSURE (Kpp)	3.33
COEFF AT-REST EARTH PRESSURE (Kpr)	.55
COEFF OF SOIL FRICTION	.35
SUBGRADE MODULUS	4120 g/m ³

MINIMUM BEARING DEPTH BELOW GRADE 800mm SEISMIC SITE CLASS (based on in-situ soil)

	MINIMUM LAP SPLICES	S OF REINFO	DRCING BARS	IN TENSION (PER ACI 318)		
	f'c = 27.5MPa CONCRETE						
	CENTER TO (TOP BARS) (OTHER BARS)						
BAR SIZE	CENTER BAR SPACING	LESS THAN 4db	4db OR MORE	LESS THAN 4db	4db OR MORE	4db	
	#10	460	460	410	410	40	
	#13	660	610	510	480	50	
	#16	1020	760	790	580	60	
	#19	1450	910	1120	710	80	
	#22	1960	1090	1500	840	90	
	#25	2590	1450	1980	1120	100	
	#29	3280	1830	2510	1420	110	
	#32	4140	2340	3200	1780	130	
	#36	5080	2840	3910	2180	140	

NOTES:	
--------	--

FRESH CONCRETE.

STRUCTURAL

ELEMENT

SLAB-ON-GRADE/TURN-DOWN SLABS

ROOF AND FLOOR SLABS

ALL FOOTINGS (U.N.O.)

MISC. CURBS, WALLS

AND PADS UND

CONCRETE MATERIALS SCHEDULE

- LAP SPLICES ABOVE ARE IN MILLIMETERS UNO. 2. YIELD STRENGTH OF REINFORCEMENT, fy, IS
- 3. CONCRETE IS NORMAL WEIGHT (2400Kg/m). 4. TOP BAR INDICATES HORIZONTAL REINFÓRCEMENT WHICH IS PLACED ABOVE 300mm OR MORE OF

f′⊂

CONCRETE

COMPRESSIVE STRENGTH @

28 DAYS

(MPa)

27.5

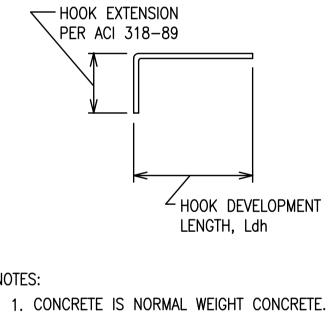
27.5

20

27.5

- 5. SEE COLUMN SCHEDULE FOR COLUMN AND SHEAR WALL VERTICAL LAP SPLICE.
- 400MPa (LAP SPLICE LENGTH IS IN MILLIMETERS). 6. STRAIGHT DEVELOPMENT LENGTH OF AN UNLAPPED BAR IS EQUAL TO VALUE FROM TABLE DIVIDED BY 1.3.
 - CATEGORY FOR BARS SPACED LESS THAN 4d, OR ON CENTER CORRESPONDS TO CATEGORY 1 IN THE CRSI HANDBOOK WHEREAS FOR BARS SPACED 4d, OR MORE ON CENTER CORRESPOND TO CRSI CATEGORY 5.

	STANDARD HOOKS IN TENSION PER (ACI 318-89)						
HOOK DEVELO	HOOK DEVELOPMENT LENGTH Ldh (mm)						
BAR SIZE	f'c 20 MPa	f'c 27.5 MPa					
#10	230	180					
#13	280	250					
#16	360	300					
#19	430	380					
#22	480	430					
#25	560	480					
#29	640	560					
#32	710	610					
#36	790	690					



STRUCTURAL ELEMENT

BEAMS & GIRDERS

COLUMNS

MISC BRACING

CONNECTIONS, PLATES, & ALL

OTHERS

ANCHOR BOLTS

PIPES

TUBING

BOLTS

WELDING

ELECTRODES

HIGH STRENGTH

NOTES:

- 2. BAR YIELD STRENGTH, fy = 400 MPa
- 3. SIDE COVER REQUIREMENTS OF ACI SECT. 12.5.3.2 ARE ASSUMED TO NOT BE MET.
- 4. TIE OR STIRRUP REQUIREMENTS OF ACI SECT. 12.5.3.2 ARE ASSUMED TO NOT BE MET.
- 5. REDUCTION FOR EXCESS REINFORCEMENT IS NOT TAKEN.
- 6. HOOK DEVELOPMENT LENGTH IS VALID FOR 180 HOOKS ALSO.
- 7. FOR 35 MPa CONCRETE, USE VALUES FOR 30 MPa

STEEL MATERIALS SCHEDULE			CONCRETE COVER SCHEDULE
	FY YIELD STRENGTH (MPa)	REMARKS	MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHAL BE AS FOLLOWS: (SEE ACI 318-89M, SECTION 7.7 FOR CONDITIONS NOT DIMENSIONS FOR BAR PLACEMENT GIVEN IN SECTIONS AND DETAILS SHALL SHAPE OF THE PROPERTY OF THE PR
	250	ASTM A36M ASTM A6M	SUPERSEDE MINIMUM COVER REQUIREMENTS GIVEN HERE. DIMENSIONS AR FOOTINGS (EARTH FORMED)
	240	ASTM A53-95 GRADE B ASTM A6M	COLUMNS / PIERS GRADE BEAMS OR SLAB TURNED DOWN EDGES: TOP
	250	ASTM A572M ASTM A6M	BOTTOM (EARTH FORMED) SIDES (EARTH FORMED) SIDES (BOARD FORMED) #16 BAR & SMALLER
	250	ASTM A36M ASTM A6M	#19 THRU #36 BAR
	-	ASTM A36M or A307M ASTM A6M	SLABS-ON-GRADE (NO EXPOSURE TO WEATHER) FROM TOP SLABS-ON-GRADE (EXPOSURE TO WEATHER) FROM TOP
	240	ASTM A53-95 GRADE B ASTM A6M	UTILITY TUNNEL WALLS, RETAINING WALLS AND SHEAR WALLS, (NO SURFACES SHALL BE EARTH FORMED) EARTH SIDE AND FRONT SIDE (EXPOSED TO WEATHER):
	345	ASTM A500-93 GRADE C ASTM A6M	#16 BAR AND SMALLER #19 THRU #36 BAR
	_	ASTM A325M-N	PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTA CONCRETE PROTECTION SPECIFIED.
	_	AWS D1.1-90	

MINIMUM CONCRETE COVER PROTECTION BE AS FOLLOWS: (SEE ACI 318—89M, S DIMENSIONS FOR BAR PLACEMENT GIVE SUPERSEDE MINIMUM COVER REQUIREM	SECTION 7.7 FOR CONDITIONS NOT N N IN SECTIONS AND DETAILS SHALL	,
FOOTINGS (EARTH FORMED)		70
COLUMNS / PIERS		40
GRADE BEAMS OR SLAB TURNED DOWN	EDGES:	
TOP BOTTOM (EARTH FORMED) SIDES (EARTH FORMED) SIDES (BOARD FORMED)	#16 BAR & SMALLER #19 THRU #36 BAR	40 70 70 40 50
SLABS-ON-GRADE (NO EXPOSURE TO	WEATHER) FROM TOR	20
SLABS-ON-GRADE (NO EXPOSURE TO WEA	•	40
UTILITY TUNNEL WALLS, RETAINING WAI (NO SURFACES SHALL BE EARTH FOR EARTH SIDE AND FRONT SIDE (EXPOS #16 BAR AND SMALLER #19 THRU #36 BAR	MED)	4 0 50
PROVIDE STANDARD BAR CHAIRS AND CONCRETE PROTECTION SPECIFIED.	SPACERS AS REQUIRED TO MAINTAIN	

CONCRETE COVER SCHEDULE	
MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS: (SEE ACI 318-89M, SECTION 7.7 FOR CONDITIONS NOT NOTED). DIMENSIONS FOR BAR PLACEMENT GIVEN IN SECTIONS AND DETAILS SHALL SUPERSEDE MINIMUM COVER REQUIREMENTS GIVEN HERE. DIMENSIONS ARE IN mm.	,
FOOTINGS (EARTH FORMED)	70
COLUMNS / PIERS	40
GRADE BEAMS OR SLAB TURNED DOWN EDGES:	
TOP BOTTOM (EARTH FORMED) SIDES (EARTH FORMED) SIDES (BOARD FORMED) #16 BAR & SMALLER #19 THRU #36 BAR	40 70 70 40 50 40
SLABS-ON-GRADE (NO EXPOSURE TO WEATHER) FROM TOP	20
SLABS-ON-GRADE (EXPOSURE TO WEATHER) FROM TOP	40
UTILITY TUNNEL WALLS, RETAINING WALLS AND SHEAR WALLS, (NO SURFACES SHALL BE EARTH FORMED) EARTH SIDE AND FRONT SIDE (EXPOSED TO WEATHER): #16 BAR AND SMALLER #19 THRU #36 BAR	40 50
PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.	

FOOTINGS (EARTH FORMED)		70
OLUMNS / PIERS		40
GRADE BEAMS OR SLAB TURNED DO	WN EDGES:	
TOP BOTTOM (EARTH FORMED) SIDES (EARTH FORMED) SIDES (BOARD FORMED)	#16 BAR & SMALLER #19 THRU #36 BAR	40 70 70 40 50
		40
SLABS-ON-GRADE (NO EXPOSURE	TO WEATHER) FROM TOP	20
SLABS-ON-GRADE (EXPOSURE TO	,	40
UTILITY TUNNEL WALLS, RETAINING (NO SURFACES SHALL BE EARTH F EARTH SIDE AND FRONT SIDE (EXF	ORMED)	
#16 BAR AND SMALLER		40 50
#19 THRU #36 BAR		

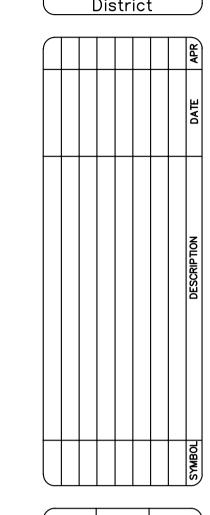
SPREAD FOOTING AND PIER SCHEDULE									
MARK	FO LENGTH	OOTING SIZE WIDTH	THICKNESS	FOOTING REINFORCING	SIZE	T/PIER	VERT. BARS	TIES	REMARKS
F2	2500	2500	300	7-#16 E.W., T & B	450	0.0	8-#19	2 SETS #10 @ 125	HAIRPINS REQ'D. SEE DETAILS

NOTES:

E70xx

- 1. DIMENSIONS NOTED ARE MILLIMETERS (mm) U.N.O.
- 2. T/PIER EL GIVEN IN REFERENCE TO 0.0 mm DATUM OR FINISH FLOOR EL/SLAB EL, DISTANCE ABOVE OR BELOW INDICATED AS NEGATIVE OR POSITIVE.
- 3. PIER SIZE INDICATED IS SQUARE (DIMENSION SAME IN BOTH DIRECTIONS) U.N.O.

US Army Corp of Engineers
Afghanistan Engineer District



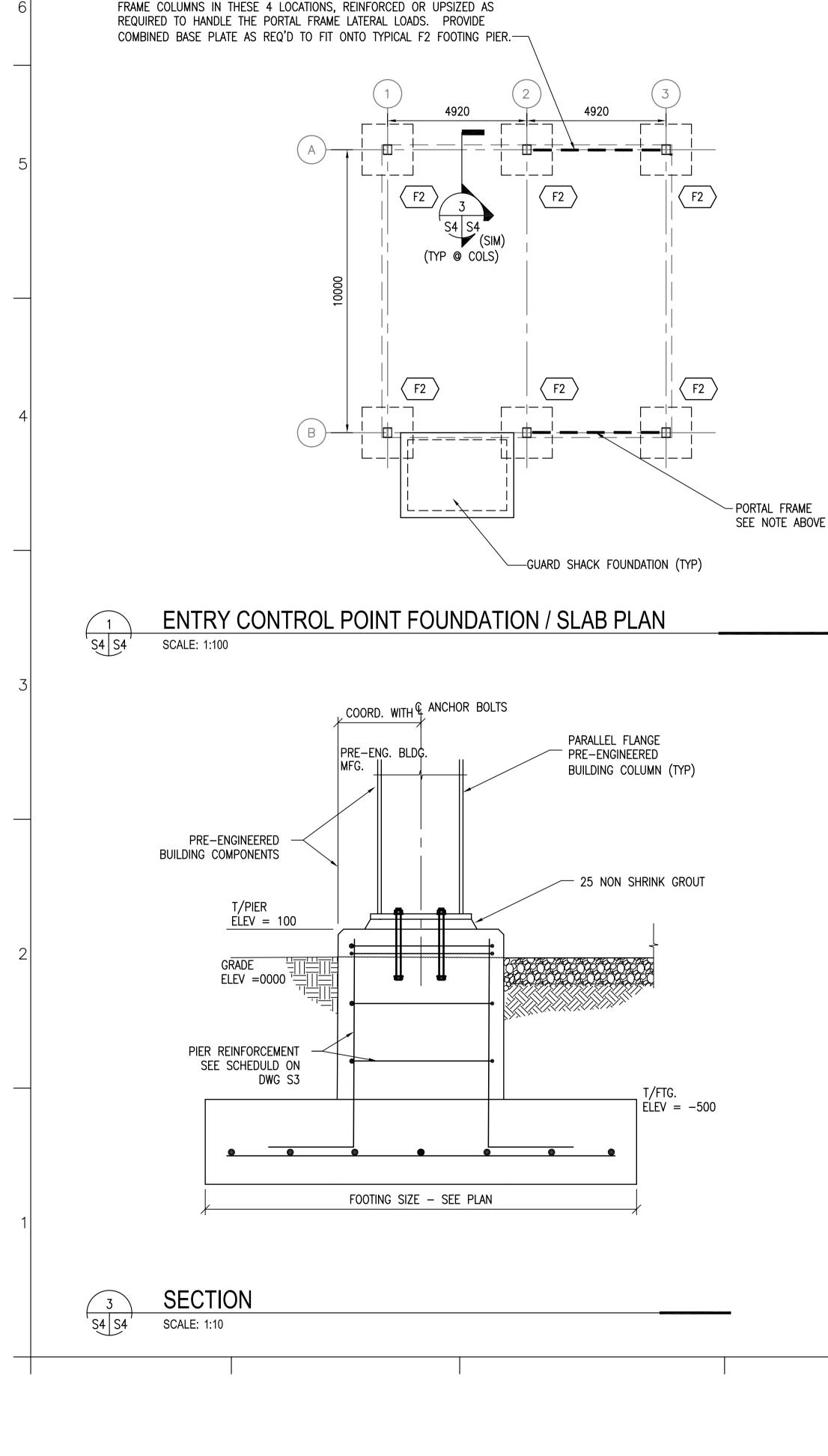
DATE:	60-30-60	SUBMITTED BY:	BAKER	FILE NO.:	ANPSDS-003XXX
DESIGNED BY: DATE:	BAKER	DWN BY:	RCG	CHK BY:	RTD

AFGHAN NATIONAL POLICE STANDARD DESIGN ENTRY CONTROL POINT CANOPY STRUCTURAL MATERIAL SCHEDULES

NUMBER:

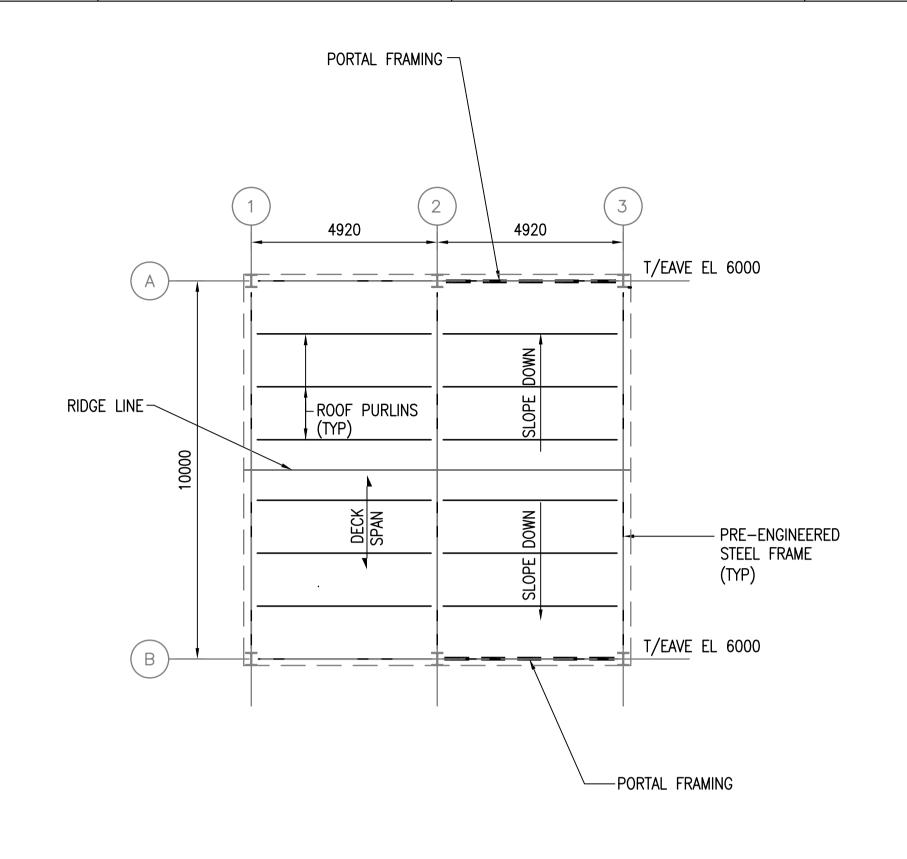
SHEET REFERENCE

CAST-IN-PLACE LINTEL 20 CONCRETE FRAMING -27.5 BEAMS AND COLUMNS NOTES: 1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE. (2400 Kg/m³ UND)



PORTAL FRAMING - DESIGNATED LOCATION FOR PRE-ENGINEERED PORTAL

FRAMING. PORTAL FRAMING COLUMNS SHALL BE COMBINED WITH THE RIGID



ENTRY CONTROL POINT ROOF FRAMING PLAN

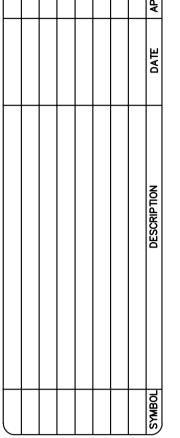
SCALE: 1:100

NOTES :

- 1. FINISH GRADE ELEVATION SHALL BE (DATUM 0.0) ALL PLUS OR MINUS DIMENSIONS INDICATED ON PLAN OR REFERRED TO IN NOTES RELATE TO FINISH GRADE ELEVATION.
- 2. TOP OF EXTERIOR FOOTINGS SHALL BE -500 UNLESS OTHERWISE INDICATED.
- 3. SPREAD FOOTINGS INDICATED THUS $\langle XXXX \rangle$ ON PLAN. REFER TO SPREAD FOOTING SCHEDULE ON DRAWING S3.
- 4. REFER TO DRAWINGS S1 TO S3 FOR STRUCTURAL NOTES, BASIS OF DESIGN, SYMBOLS AND ABBREVIATIONS.
- 5. PRIOR TO CONSTRUCTION OF FOUNDATIONS, THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL FOOTINGS, PIERS, AND TURN DOWN SLAB EDGES WITH THE PRE-ENGINEERED BUILDING DRAWINGS AND REVISE AS NECESSARY.
- 6. PRE-ENGINEERED COLUMN BASES SHALL BE DESIGNED AS PINNED ONLY.
- 7. LOCATIONS OF LATERAL RESISTING SYSTEMS (PORTAL FRAMES, X-BRACING) HAS BEEN SHOWN IN PLAN AND SHALL NOT BE MODIFIED UNLESS APPROVED BY THE ENGINEER OF RECORD.
- 8. ALL PIERS FOR PRE-ENGINEERED BUILDING COLUMNS SHALL HAVE HAIR-PIN TIES AS INDICATED IN THE DETAILS.
- 9. ANCHOR BOLTS FOR PRE-ENGINEERED BUILDING COLUMNS SHALL BE (4)-20 DIA A307M ANCHOR BOLTS WITH 300 EMBED MIN.
- 10. TOP OF PIER ELEVATION SET AT +100. COORDINATE BOTT/BASE PLATE AND GROUT REQUIREMENTS WITH PRE-ENGINEERED BUILDING MANUFACTURER.
- 11. THE PRE-ENGINEERED BUILDING MANUFACTURER SHALL COORDINATE ALL LOADING REQUIREMENTS INDICATED ON THE DRAWINGS AND SPECIFICATIONS WITH ARCH., STRUCT., MECH., AND ELEC.
- 12. THE PRE-ENGINEERED BUILDING MANUFACTURER SHALL COORDINATE ALL HANGING LOADING FROM EQUIPMENT OR ARCHITECTURAL ELEMENTS AND INCLUDE IN THE DESIGN OF THE FRAMING.
- 13. SEE SPECIFICATION FOR LATERAL DRIFT REQUIREMENTS.
- 14. METAL ROOF DECKING DESIGN AND PROVIDED BY PRE-ENGINEERED BUILDING MANUFACTURER.

US Army Corps of Engineers

Afghanistan Engineer District



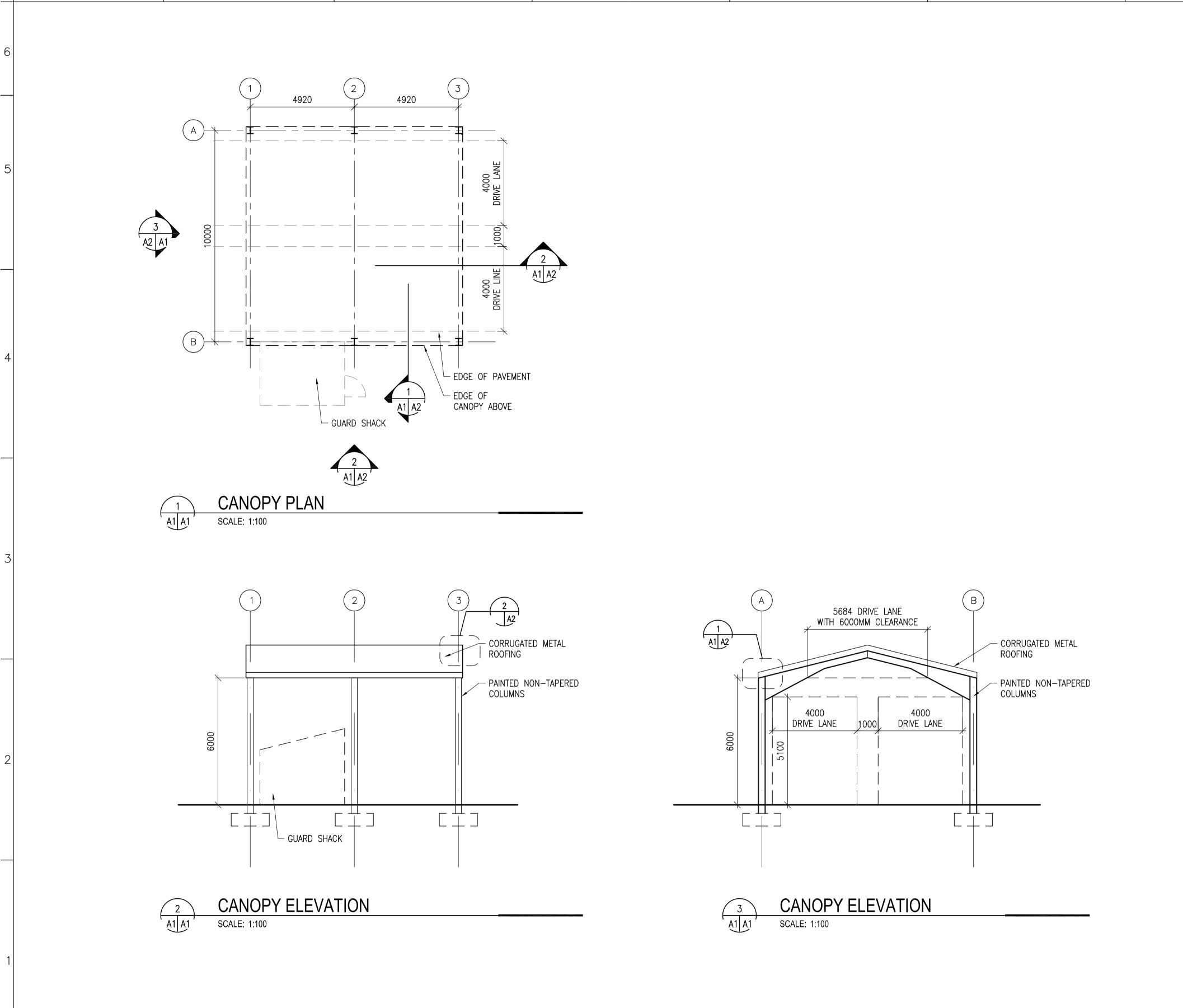
DATE: 09-30-09	SUBMITTED BY:	BAKER	FILE NO.:	ANPSDS-104XXX
DESIGNED BY: DATE:	DWN BY:	TML	CHK BY:	RTD

FOUNDATION / SLAB / ROOF FRAMING PLAN AFGHAN NATIONAL POLICE STANDARD DESIGN ENTRY CONTROL POINT CANOPY

SHEET REFERENCE NUMBER:

S4

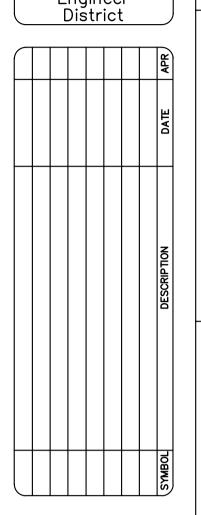
1 0 1 2 3 4 5 6 7 8 9



CANOPY NOTES:

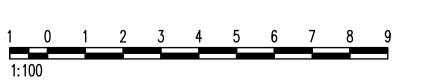
- 1. STRUCTURE SHALL BE PRE-ENGINEERED METAL BUILDING SYSTEM
- 2. SURFACES TO BE PAINTED SHALL BE CLEAN AND FREE OF FOREIGN MATTER BEFORE APPLICATION OF PAINT. CLEANING SHALL BE SCHEDULED SO THAT DUST AND OTHER CONTAMINANTS WILL NOT FALL ON WET, NEWLY PAINTED SURFACES.
- 3. PAINTS CONTAINING LEAD IN EXCESS OF 0.06 PERCENT BY WEIGHT OF THE TOTAL NONVOLATILE CONTENT SHALL NOT BE USED.
- 4. MERCURIAL FUNGICIDES SHALL NOT BE USED IN OIL-BASE PAINT.
- 5. REMOVE LOOSE DIRT AND CLEAN SURFACES BEFORE PAINTING. APPLY PAINT TO INTERIOR STRUCTURAL RIGID FRAMINGS AND CEILINGS AND TEST FOR ADHESION. PRIMER COAT FOR MASONRY. INITIAL FIRST COAT WITH AN ACRYLIC LATEX PAINT FOR EXTERIOR SURFACES AND A SECOND COAT WITH A WATER REPELLANT ACRYLIC LATEX PAINT.

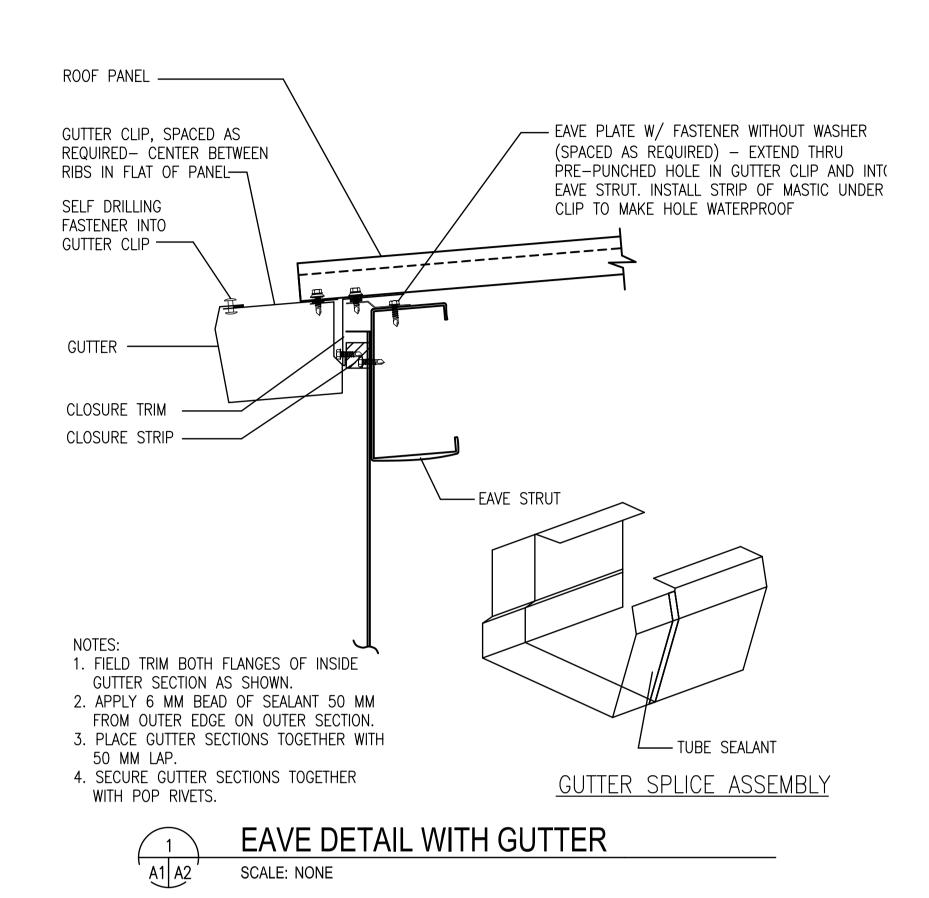
HrH
US Army Corps of Engineers
Afghanistan Engineer

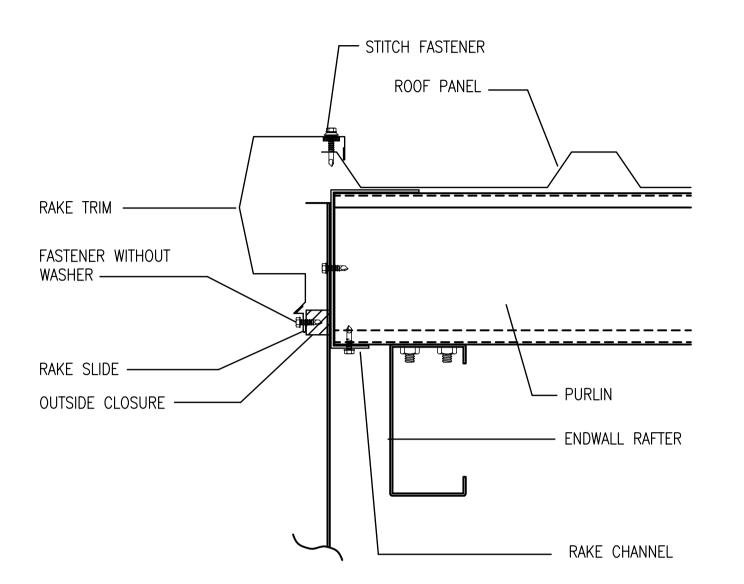


DATE:	09-30-09	SUBMITTED BY:	BAKER	FILE NO.:	ANPSDA-101XXX
DESIGNED BY: DATE:	BAKER	DWN BY:	SOr	CHK BY:	RTD
	Michael Baker Ir Inc	A unit of Michael Baker Corporation	Airside Business Park 100 Airside Drive	Moon Township PA 15108	www.mbakercorp.com

AFGHAN NATIONAL POLICE
STANDARD DESIGN
ENTRY CONTROL POINT CANOPY
CANOPY PLAN, ELEVATIONS, AND SECTIONS

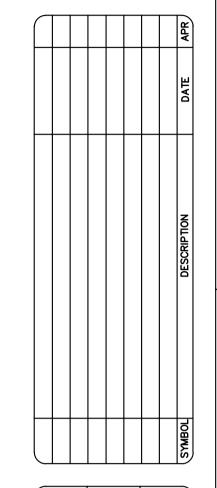








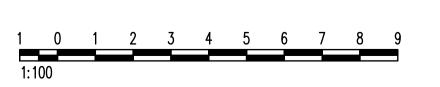


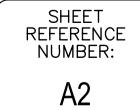


DATE:	60-30-08	SUBMITTED BY:	BAKER	FILE NO.:	ANPSDA-102XXX
DESIGNED BY: DATE:	BAKER	DWN BY:	SOF	CHK BY:	RTD

Michael Baker Jr., Inc A unit of Michael Baker Corporatic Airside Business Park 100 Airside Drive Moon Township PA 15108 www.mbakercorp.com

AFGHAN NATIONAL POLICE
STANDARD DESIGN
ENTRY CONTROL POINT CANOPY
CANOPY PLAN, ELEVATIONS, AND SECTIONS





T NCE :R: